GB

YAMAHA

CRX-E400

RX-E400
CDX-E400

Receiver/CD Player

Récepteur/Lecteur CD

COMPACT disc DIGITAL AUDIO TEXT

micro component system
PIANOCRAFT

OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG
BRUKSANVISNING
MANUALE DI ISTRUZIONI
MANUAL DE INSTRUCCIONES
GEBRUIKSAANWIJZING

Downloaded From Disc-Player.com Yamaha Manuals

CAUTION: READ THIS BEFORE OPERATING THIS UNIT

1. To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install this unit in a well ventilated, cool, dry, clean place away from direct sunlight, heat sources, vibration, dust, moisture or cold. In a cabinet, allow about 10 cm (4 in.) of free space all around RX-E400 for adequate ventilation.
3. Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
4. Do not expose this unit to sudden temperature changes from cold to hot, nor locate this unit in an environment with high humidity (i.e., a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
5. Avoid installing this unit in a location where foreign objects may fall onto this unit or where this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
   - Other components, as they may cause damage and/or discoloration on the surface of this unit.
   - Burning objects (i.e., candles), as they may cause fire, damage to this unit, and/or personal injury.
   - Containers with liquid in them, as they may fall, spilling the liquid and causing an electrical shock to the user and/or damage to this unit.
6. Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
7. Do not plug in this unit to a wall outlet until all connections are complete.
8. Do not operate this unit upside-down. It may overheat, possibly causing damage.
9. Do not use excessive force on switches, knobs and/or cords.
10. When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord.
11. Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
12. Use only the voltage specified on this unit. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than as specified.
13. To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm.
14. Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reason.
15. When not planning to use this unit for long periods of time (i.e., vacation), disconnect the AC power plug from the wall outlet.
16. Be sure to read the “Troubleshooting” section on common operating errors before concluding that this unit is faulty.
17. Before moving this unit, press STANDBY/ON to set the unit in standby mode, then disconnect the AC power plug from the wall outlet.
18. VOLTAGE SELECTOR (General model only)

    The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC main supply. Voltages are 110/120/220/240 V AC, 50/60 Hz.

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

The unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

CAUTION FOR CARRYING THE UNIT

Before carrying the unit, first remove the disc from the unit, press **STANDBY/ON** to turn the unit off, then disconnect the AC power plug from the wall outlet.

SPECIAL INSTRUCTIONS FOR U.K. MODEL

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:

Blue: NEUTRAL
Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described above.

Note: The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

RX-E400 (U.S.A., Canada and General models)
The nameplate is located on the bottom of the unit.

Downloaded From Disc-Player.com Yamaha Manuals

FEATURES

<RX-E400>

- **Minimum RMS output power per channel 40 W + 40 W (6Ω, 20 Hz to 20 kHz, 0.1% THD)**
- **Full operation system remote control**
- **40-station FM/AM preset tuning**
- **Multi-function RDS reception**
- **SUBWOOFER output terminal**

<CDX-E400>

- **S-bit DAC and 8fs digital filter**
- **Optical digital output**
- **Random, repeat, and program play**
- **CD TEXT display**
- **Copy time control**
- **CD-RW compatible**

English

The receiver (RX-E400) and CD player (CDX-E400) are the main units of the YAMAHA Piano Craft Series.
You can upgrade the system by adding the cassette deck (KX-E300) and MD recorder (MDX-E300)*.
* MD recorder (MDX-E300) may not be available for some areas.

CONTENTS

SUPPLIED ACCESSORIES 2

CD PREVENTIVE CARE 2

GETTING STARTED
Remote control 3
Connecting the speakers and antennas 4
Connecting the system 5
Setting the clock 6
Adjusting the brightness of the display 6

<RX-E400>

NAMES OF BUTTONS AND CONTROLS
Front panel 7
Display 7
Remote control 8

BASIC OPERATIONS
Listening to a source 9

TUNING
Listening to the radio 10
Presetting stations 11

RECEIVING RDS STATIONS
Receiving RDS data 12
PTY SEEK mode 13
Optional settings for RDS functions 14

USING THE BUILT-IN TIMER
Before using the timer 15
Timer play and recording 15
Sleep timer 16

<CDX-E400>

NAMES OF BUTTONS AND CONTROLS
Front panel 17
Display 17
Remote control 18

CD OPERATIONS
Playing a disc 19
Selecting the time display and CD TEXT 20
Random-sequence play 20
Repeat play 21
Program play 21

SYSTEM CONTROL
Controlling other components 23
Before recording 24
Dubbing setting 24
Copy time control 25

ADDITIONAL INFORMATION
Troubleshooting 26
Specifications 28

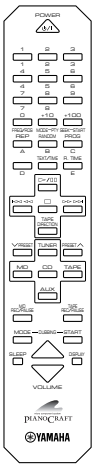
Downloaded From Disc-Player.com Yamaha Manuals

SUPPLIED ACCESSORIES

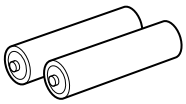
After unpacking, check that the following parts are contained.

<RX-E400>

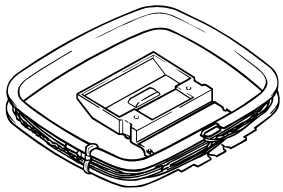
- Remote control



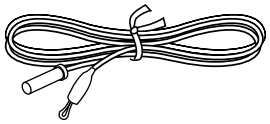
- Batteries (AA, R6, UM-3)



- AM loop antenna

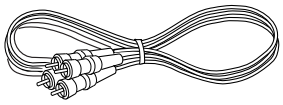


- Indoor FM antenna

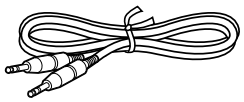


<CDX-E400>

- Audio pin cable



- System control cable



CD PREVENTIVE CARE

- This compact disc player is designed for use with following types of disc only. Never attempt to load any other type of disc into the unit. The unit will also play 8-cm (3-inch) compact discs.

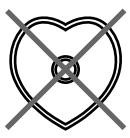
COMPACT disc DIGITAL AUDIO
COMPACT disc DIGITAL AUDIO TEXT
COMPACT disc DIGITAL AUDIO Recordable
COMPACT disc DIGITAL AUDIO ReWritable

(Playback only)

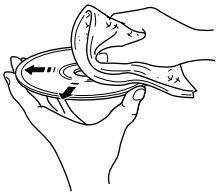
- Be sure to use only CD-R and CD-RW discs made by reliable manufacturers.
- Some discs cannot be played depending on the disc characteristics or recording conditions (copyright-protected in a particular way, etc.).
- Compact discs are not subjected to wear during play, but damage to the disc surface when the disc is being handled can adversely affect the disc's play.
- Do not use cleaning discs or warped discs. All of these could damage the unit.

To prevent a malfunction of this unit

- Do not use any non standard shaped CD (heart, etc.) available on the market, because it may damage the unit.



- Do not use a CD with tape, seals, or paste on it, because damage to the unit may result.
- Compact discs are not affected by small particles of dust or fingerprints on their playing surface, but even so they should be kept clean. Wipe by using a clean, dry cloth. Do not wipe with a circular motion; wipe straight outward from the center.



- Do not try to clean the disc's surface by using any type of disc cleaner, record spray, antistatic spray or liquid, or any other chemical-based liquid, because such substances might irreparably damage the disc's surface.
- Do not expose discs to direct sunlight, high temperature or high humidity for a long period of time, because these might warp or otherwise damage the disc.

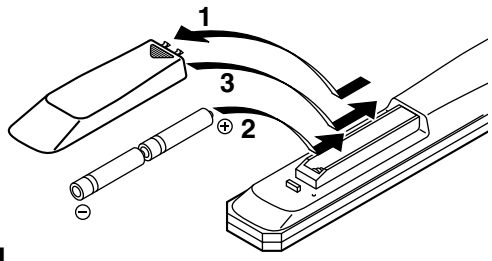
Downloaded From Disc-Player.com Yamaha Manuals

Remote control

This remote control controls a whole system: not only RX-E400 but also CDX-E400. Moreover, a cassette deck (KX-E300) and MD recorder (MDX-E300) that level up your system can be operated by it. Operating buttons for each unit are explained on the pages below:

Receiver, RX-E400:	p.8
CD player, CDX-E400:	p.18
Cassette deck, KX-E300:	p.23
MD recorder, MDX-E300:	p.23

Battery installation



1 Remove the battery compartment cover.

2 Insert batteries into the battery compartment.

3 Replace the battery compartment cover.

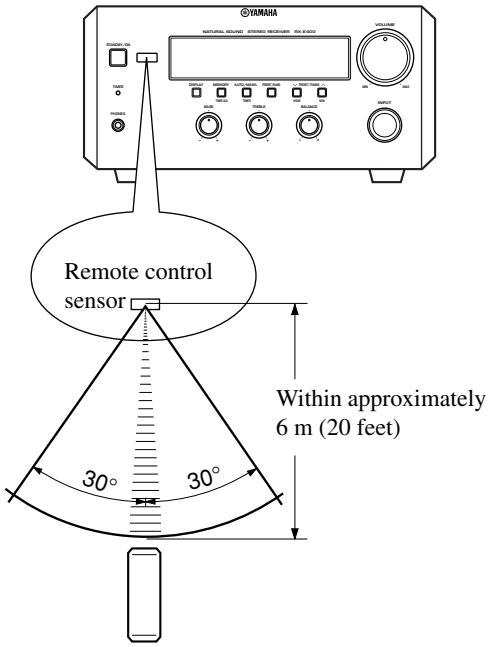
Battery replacement

If you find that the remote control must be used closer to the main unit than usual, the batteries are weak. Replace batteries with new ones.

Notes

- Use only AA, R6, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

Remote control operation range

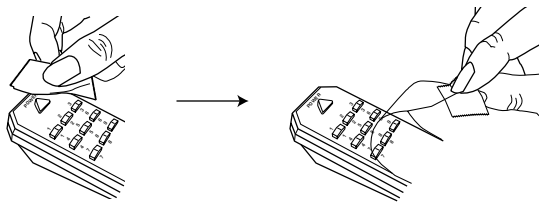


Notes

- There should be no large obstacles between the remote control and the main unit.
- If the remote control sensor is directly illuminated by strong lighting (especially an inverter type of fluorescent lamp, etc.), it might cause the remote control not to work correctly. In this case, reposition the main unit to avoid direct lighting.

Removing the protection sheet

The remote control is shipped with a protection sheet to prevent the surface from being scratched during transportation.
When removing the sheet, first put adhesive tape on an edge of the remote control so that the tape sticks to the sheet. Then peel the sheet off with the tape.



Note

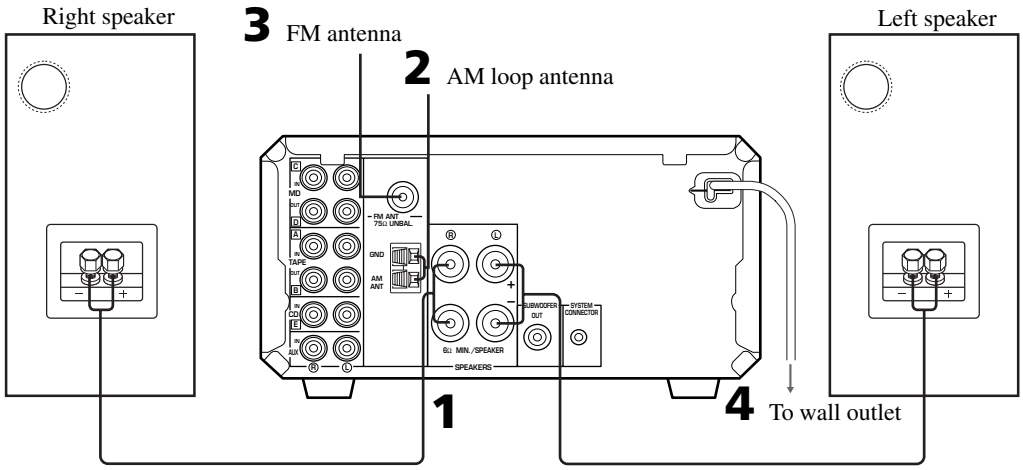
- Do not scratch the remote control surface when peeling the sheet off.

Downloaded From Disc-Player.com Yamaha Manuals

Connecting the speakers and antennas

Never plug the AC power cord to the wall outlet until all connections are completed.

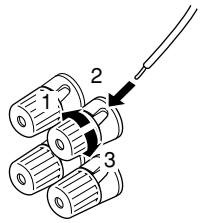
Follow the steps as shown below to connect the system using the supplied cords and accessories. Be sure all connections are made correctly, that is to say L (left) to L, R (right) to R, "+" to "+" and "–" to "–".



1 Connect the Speakers.

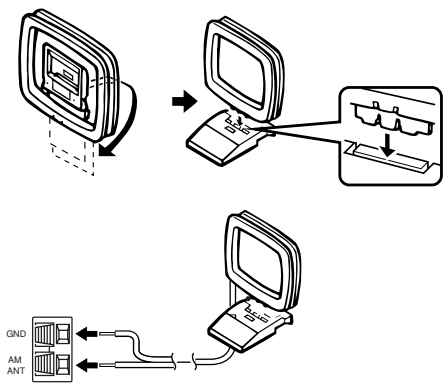
① Unscrew the knob.
② Remove approx. 10 mm (4") of insulation from each of the speaker wires and insert the bare wire into the terminal.
③ Tighten the knob to secure the wire.

Red: positive(+)
Black: negative(–)

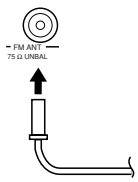


2 Connect the AM Antenna.

Set up the AM loop antenna, then connect it.



3 Connect the FM Antenna.



4 Connect the AC power cord to a wall outlet.

Notes

- Use external FM/AM antennas if you need better reception. Consult your dealer.
- The AM loop antenna should be placed apart from the main unit. The antenna may be hung on a wall.

To connect the subwoofer (optional)

You can reinforce the bass frequencies by adding a subwoofer (optional).
Connect the **SUBWOOFER OUT** terminal of the unit to the INPUT terminal of the subwoofer.

Downloaded From Disc-Player.com Yamaha Manuals

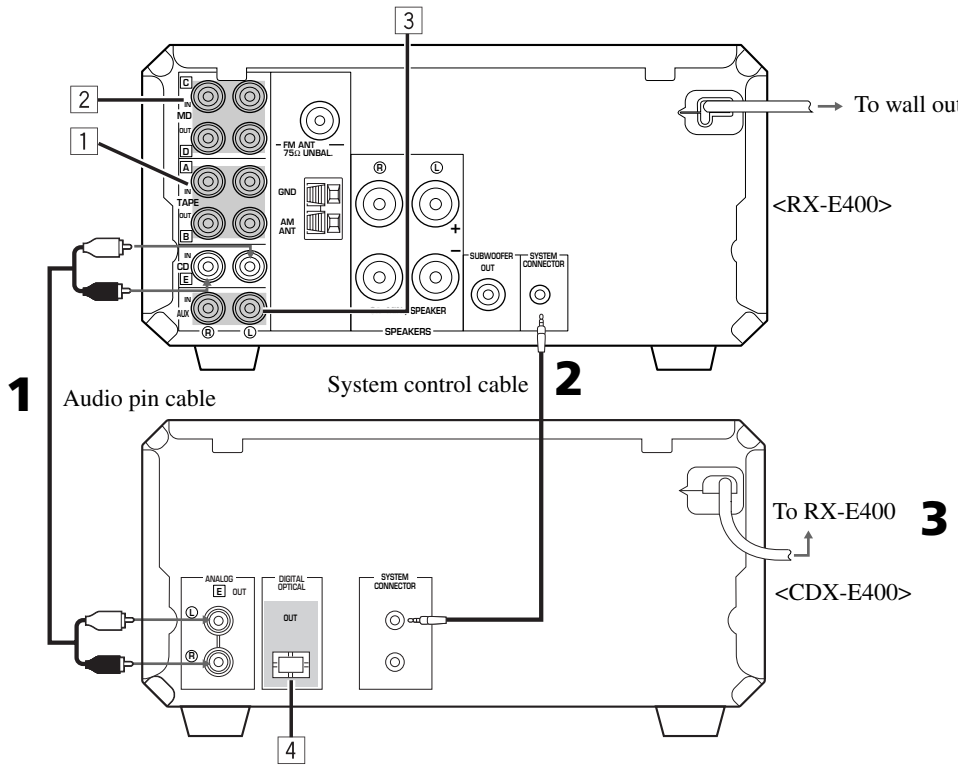
Connecting the system

Connecting RX-E400 and CDX-E400

1 Connect E to E using the Audio pin cable.
Insert the plugs into the jacks of the same color.

2 Connect RX-E400 and CDX-E400 with the system control cable.
The other **SYSTEM CONNECTOR** of CDX-E400 is for connecting MDX-E300 or KX-E300.

3 Connect the AC power plug of CDX-E400 to **AC OUTLET** of RX-E400.
This connection allows you to control the power of the system through one-touch operation. It also reduces the standby power consumption of CDX-E400.



Adding KX-E300 and MDX-E300 to the above system

(For details, refer to the owner's manual supplied with the respective component.)

1 Connect A and B of RX-E400 to A and B of KX-E300.

2 Connect C and D of RX-E400 to C and D of MDX-E300.

3 Connect an external component to the **AUX** terminal of RX-E400.

4 Connect **DIGITAL OPTICAL OUT** of CDX-E400 to **DIGITAL OPTICAL IN** of MDX-E300.

Take off the covers of the optical fiber cable plug, the **DIGITAL OPTICAL OUT** jack, and the **DIGITAL OPTICAL IN** jack before making digital connections. Be sure to replace the terminal's cover when the terminal on the rear panel is not being used, in order to protect from dust.

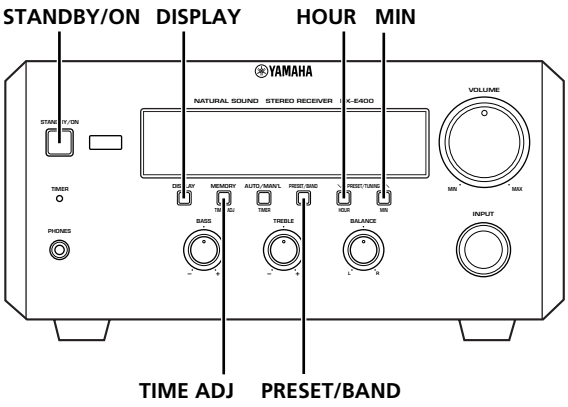
Caution

- Never turn RX-E400 on until all connections between components have been completed.
- Never connect or disconnect the system control cable and/or power cord while the system components are turned on.

Downloaded From Disc-Player.com Yamaha Manuals

Setting the clock

You must set the clock before you use the timer functions. The clock is based on a 24-hour system.



1 Turn on the power by pressing **STANDBY/ON** on the front panel, or **POWER** on the remote control.

2 While the power is on, press **DISPLAY** to display the time.

3 While holding **TIME ADJ**, press **HOUR** to set the hour.

- If you want to move the time in the reverse direction, press **HOUR** while holding **TIME ADJ** and **PRESET/BAND**.

4 While holding **TIME ADJ**, press **MIN** to set the minutes.

- If you want to move the time in the reverse direction, press **MIN** while holding **TIME ADJ** and **PRESET/BAND**.

To display the clock

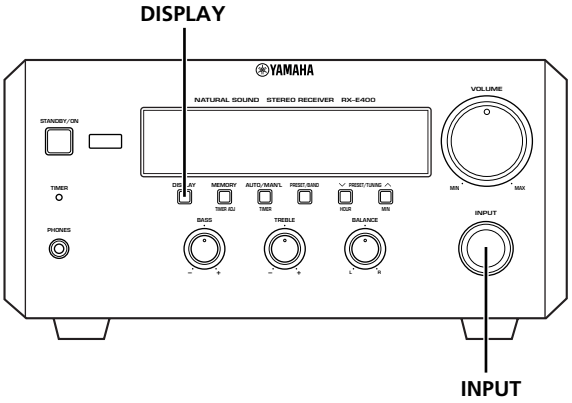
Press **DISPLAY**.
The current time appears for about 8 seconds, then the normal display returns. Some buttons and controls may not work while the current time is displayed.

Note

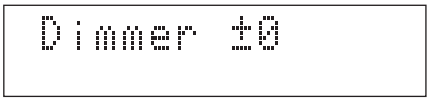
- In the event of a power failure or when the AC power cord is disconnected for more than five minutes, you must reset the clock.

Adjusting the brightness of the display

You can adjust the brightness of the display. If you have connected the CD player (CDX-E400), cassette deck (KX-E300), and/or MD recorder (MDX-E300) to this unit, the brightness of the displays is automatically adjusted to that of this unit.



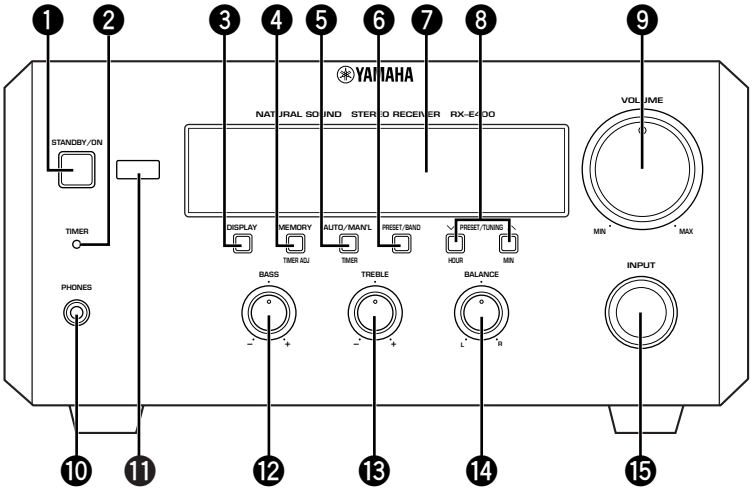
Press and hold **DISPLAY** for about two seconds so that "Dimmer ±0" appears on the display. While holding **DISPLAY**, turn **INPUT** clockwise to increase or counterclockwise to decrease brightness.



Control Range: ±0 to –6 (Preset value: ±0)

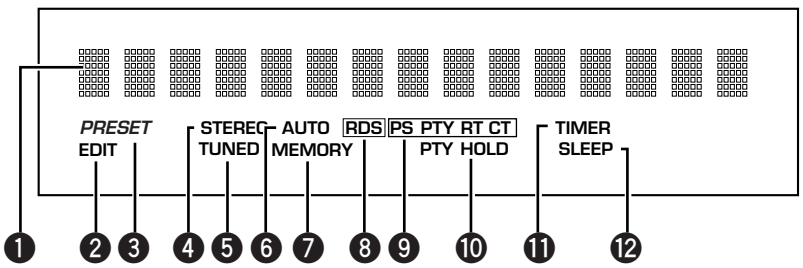
Downloaded From Disc-Player.com Yamaha Manuals

Front panel



❶ **STANDBY/ON** (P.9)
❷ **TIMER** indicator (P.15)
❸ **DISPLAY** (P.15)
❹ **TIME ADJ/MEMORY** (P.6/P.11)
❺ **AUTO/MAN'L/TIMER** (P.10/P.15)
❻ **PRESET/BAND** (P.10)
❼ Display (P.7)
❽ **PRESET/TUNING** ∧/∨ (P.10)
HOUR/MIN (P.6/P.15)
❾ **VOLUME** (P.9)
❿ **PHONES** (P.9)
⓫ Remote control sensor (P.3)
⓬ **BASS** (P.9)
⓭ **TREBLE** (P.9)
⓮ **BALANCE** (P.9)
⓯ **INPUT** (P.9)

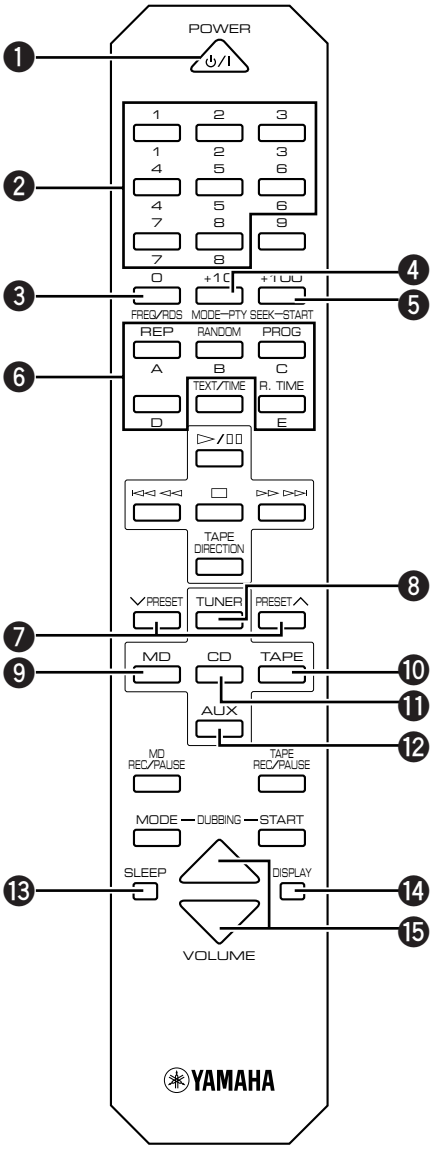
Display



❶ Multi-information display
❷ **EDIT** indicator
❸ **PRESET** indicator (P.11)
❹ **STEREO** indicator (P.10)
❺ **TUNED** indicator (P.10)
❻ **AUTO** indicator (P.10)
❼ **MEMORY** indicator (P.11)
❽ **RDS** indicator (P.12)
❾ RDS mode indicators (P.12)
❿ **PTY HOLD** indicator (P.13)
⓫ **TIMER** indicator (P.15)
⓬ **SLEEP** indicator (P.16)

Downloaded From Disc-Player.com Yamaha Manuals

Remote control



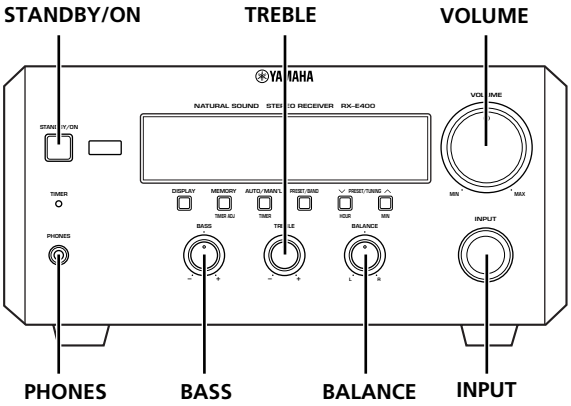
❶ **POWER** (P.9)
❷ Preset numbers (P.11)
❸ **FREQ/RDS** (P.12)
❹ **PTY SEEK MODE** (P.13/P.14)
❺ **PTY SEEK START** (P.13/P.14)
❻ **A/B/C/D/E** (P.11)
❼ **PRESET** ∧/∨ (P.11)
❽ **TUNER** (RX-E400) (P.11)
❾ **MD** (MDX-E300) (P.23)
❿ **TAPE** (KX-E300) (P.23)
⓫ **CD** (CDX-E400) (P.19)
⓬ **AUX** (The equipment connected to the AUX terminal) (P.5)
⓭ **SLEEP** (P.16)
⓮ **DISPLAY** (P.15)
⓯ **VOLUME** △/▽ (P.9)

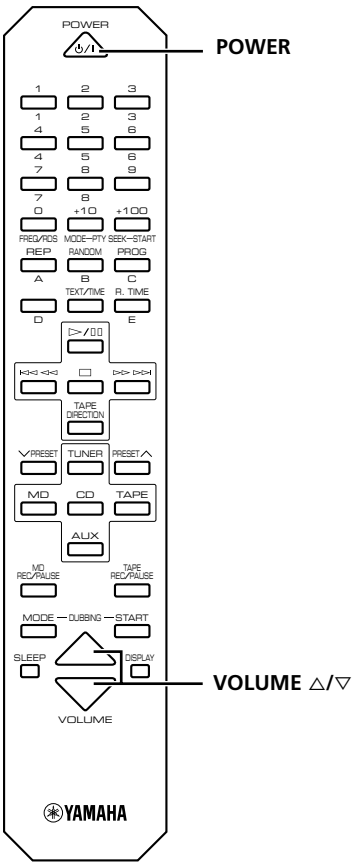
Note

- ❽~⓬ are operation buttons and input selectors for each component.

Downloaded From Disc-Player.com Yamaha Manuals

Listening to a source





1 Set the volume to "**MIN**" by turning **VOLUME**.

2 Turn on the power by pressing **STANDBY/ON** on the front panel, or **POWER** on the remote control.

- Piano Craft series components that have correct system connections made to RX-E400 can be controlled to turn to the on or standby mode by RX-E400. However, once the connected components are turned to the standby mode with their respective **STANDBY/ON** button, they cannot be controlled by RX-E400 **STANDBY/ON** button.

3 Select the desired input source by turning **INPUT** so that the source appears on the display.

- When you operate the component connected to the **AUX** terminal, turn **INPUT** to select AUX.

4 Play the source. (Refer to the owner's manual supplied with each selected component.)

5 Adjust the volume level by turning **VOLUME** on the front panel or pressing **VOLUME** △/▽ on the remote control.

6 If desired, adjust **BASS**, **TREBLE**, and **BALANCE**.

BASS: Turn this control clockwise to increase (or counterclockwise to decrease) the low frequency response.

TREBLE: Turn this control clockwise to increase (or counterclockwise to decrease) the high frequency response.

BALANCE: Adjust the balance of the output volume from the left and right speakers to compensate for sound imbalance caused by the speaker location or listening room conditions.

When you use headphones

Connect the headphones to the **PHONES** jack. You can listen to the sound to be output from the main speakers through the headphones.

When you have finished using this unit

Press **STANDBY/ON** on the front panel again or **POWER** on the remote control to set this unit to the standby mode.

Auto standby function

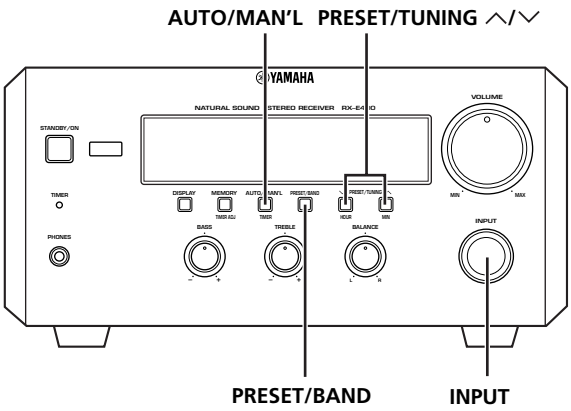
This unit will be put automatically into the standby mode under the following conditions:

- A component connected with a system control cable is selected as an input source.
- The component connected to this unit is in stop mode and not operated for 30 minutes.

Downloaded From Disc-Player.com Yamaha Manuals

Listening to the radio

You can find radio stations automatically and manually.



Automatic tuning

1 Select TUNER by turning **INPUT** so that the frequency of a radio station appears in the display.

2 Press **PRESET/BAND** to select the reception band. Do not select the preset tuning mode (in which "PRESET" appears on the display).

3 Press **AUTO/MAN'L** so that "AUTO" appears in the display.

4 Press **PRESET/TUNING** ∧ (For a higher frequency) or ∨ (For a lower frequency).

5 The unit starts searching for a station.

When the unit finds a station, the unit stops searching and "TUNED" appears on the display.

6 If the located station is not the one you want, repeat steps 4 and 5 until a station you want is tuned.

Notes

- If automatic tuning search does not find the desired station, try manual tuning as described next.
- When an FM stereo broadcast with sufficient signal strength is received, "STEREO" appears on the display and you can listen to stereo sound.

Manual tuning

1 Follow steps 1 and 2 described in "Automatic tuning."

2 Press **AUTO/MAN'L** so that "AUTO" disappears from the display.

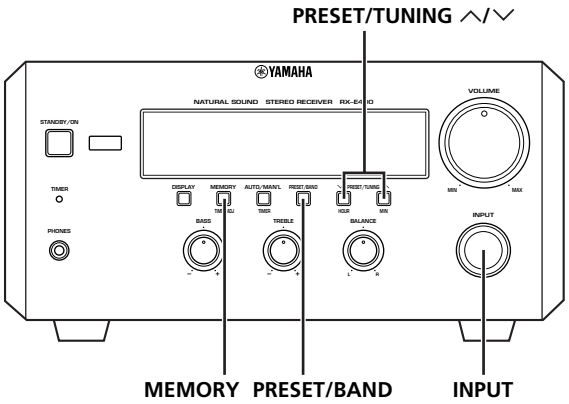
3 Press **PRESET/TUNING** ∧ (For a higher frequency) or ∨ (For a lower frequency) to select your desired station.

- Each time you press **PRESET/TUNING** ∧ or ∨, the frequency changes step by step.

Downloaded From Disc-Player.com Yamaha Manuals

Presetting stations

The unit can preset station frequencies selected by Automatic tuning or Manual tuning. Up to 40 stations can be stored. With this function, you can select any desired station by pressing the corresponding preset station number.



To preset stations manually

1 Tune in a desired station.
(Refer to the previous page for the tuning procedure.)

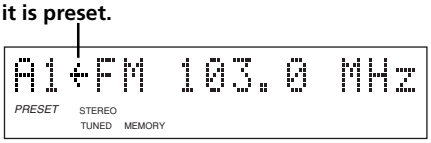
2 Press **MEMORY**.

3 Within about 5 seconds, use **PRESET/TUNING ∧/∨** to select a desired preset number. Continue pressing **PRESET/TUNING ∧/∨** to select the group of the preset stations (A, B, C, D, and E).

4 Press **MEMORY**.

- "MEMORY", "PRESET", and preset number will appear on the display.

The arrow will appear for a second when it is preset.



5 Repeat steps 1 to 4 until all desired stations are preset.

Notes

- A new setting can be preset in place of a previous one.
- The preset stations are retained for a week after you disconnect the AC power cord or a power failure occurs.

To preset stations automatically

1 Select TUNER as input source by turning **INPUT**.

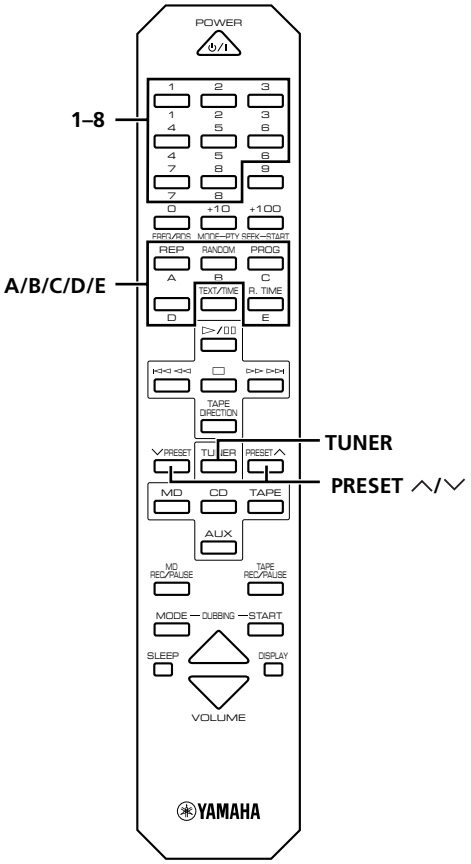
2 Press **MEMORY** for about 2 seconds.

- The unit starts presetting stations, "AUTO" and "MEMORY" will flash on the display.

Received stations are stored to A1, A2...A8 sequentially. After 40 stations or all FM and AM stations are stored, the display will show the preset station A1.

To recall a preset station

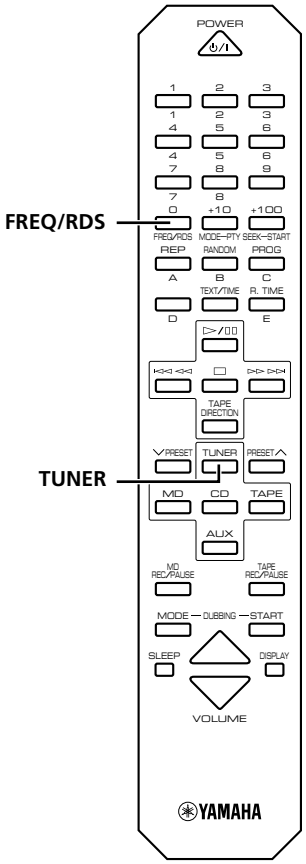
Press **TUNER** and select the desired number by pressing **PRESET/BAND** and **PRESET/TUNING ∧/∨** on the front panel or **PRESET ∧/∨**, **A/B/C/D/E** and **1–8** on the remote control.



Downloaded From Disc-Player.com Yamaha Manuals

Receiving RDS data

RDS (Radio Data System) is a data transmission system by FM stations in many countries. Stations using this system transmit an inaudible stream of data in addition to the normal radio signal. RDS data contains various types of information, such as PS (Program Service), PTY (Program Type), RT (Radio Text), and CT (Clock Time).



1 Tune in the FM station. (Refer to page 10, or you can simply press **TUNER** on the remote control.)

2 Press **FREQ/RDS** to choose the mode. Each time you press **FREQ/RDS**, the type changes as follows:

PS

The name of the RDS station being received is displayed.

- If the unit cannot find a station with PS data, the unit stops searching and “NO PS” appears on the display.

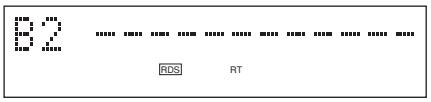
PTY

The type of the program on the RDS station now being received is displayed. You can make this unit search for a station which is broadcasting a program of a desired program type. (Refer to PTY program mode in the next section for details.)

RT

Information about the program (such as the title of the song, name of the singer, etc.) on the RDS station being received is displayed by a maximum of 64 alphanumeric characters, including the umlaut symbol. If other characters are used in the RT data, they are displayed with an under-bar.

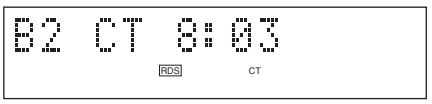
- If the unit cannot find a station with RT data, the unit stops searching and “NO RT” appears on the display.



CT

Current time is displayed.

- If the unit cannot find a station with CT data, the unit stops searching and “NO CT” appears on the display.



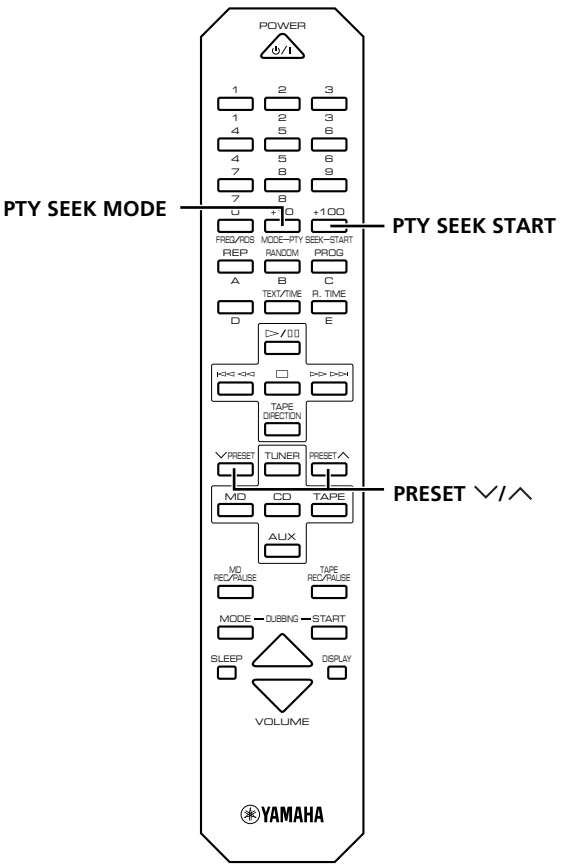
Notes

- RDS may not work properly if the station you are tuned to is not transmitting the RDS signal properly or if the signal strength is weak.
- Some FM stations do not offer RDS service. Of those that do, not all provide the same types of services. The types provided by the received RDS station are dimmed on the display. Check with your local radio stations for details on RDS services in your area.

Downloaded From Disc-Player.com Yamaha Manuals

PTY SEEK mode

You can locate a desired station by selecting a program type. The unit searches all preset stations into the type of programs currently being broadcast from the RDS stations.



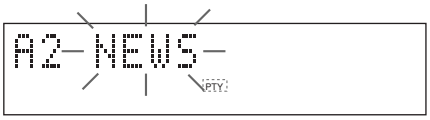
List of PTY (Program Type)

NEWS	News
AFFAIRS	Current Affairs
INFO	General Information
SPORT	Sports
EDUCATE	Education
DRAMA	Drama
CULTURE	Culture
SCIENCE	Science
VARIED	Light Entertainment
POP M	Pops
ROCK M	Rock
M.O.R. M	Middle of the Road Music (Easy-listening)
LIGHT M	Light Classics
CLASSICS	Serious Classics
OTHER M	Other Music

To locate a station

1 Tune in the FM station. (Refer to page 10, or you can simply press TUNER on the remote control.)

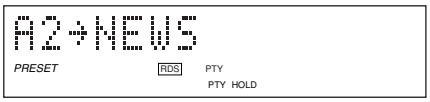
2 Press **PTY SEEK MODE** once so that “PTY” and a PTY program flashes on the display.



3 Within about 20 seconds, press **PRESET ∨/∧** repeatedly until the desired program type appears on the display.

4 Within about 20 seconds, press **PTY SEEK START**.

- If a station broadcasting the selected program type is found, the unit stops searching and the Program Service name appears on the display. “PTY HOLD” appears on the display.



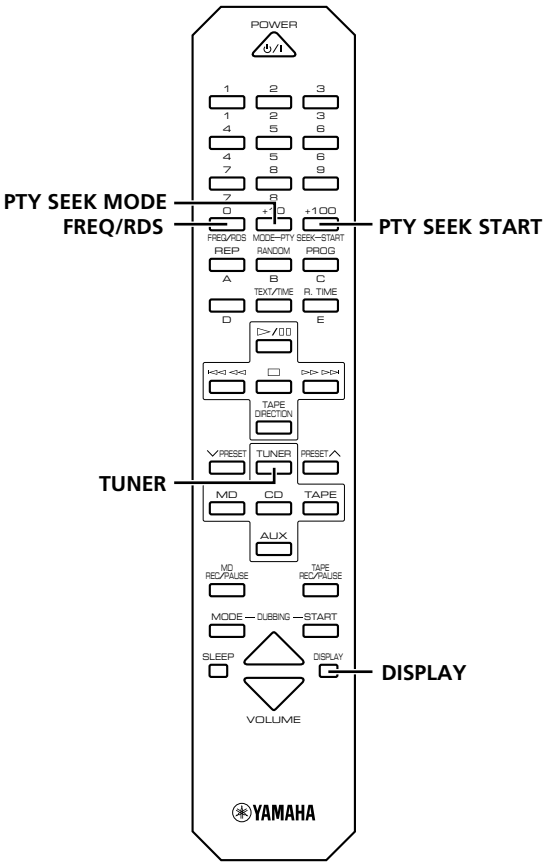
5 Repeat step 4 until the desired station is located.

If there is no station broadcasting the program type you select, “NO PTY” appears on the display, then the Program Service name or frequency appears on the display.

Downloaded From Disc-Player.com Yamaha Manuals

Optional settings for RDS functions

The tuner has the following functions which make use of the RDS data service. These are originally in operation ON. However, you can turn these functions OFF, if so desired.



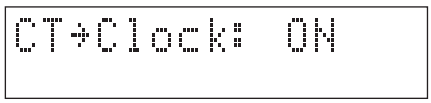
1 Select the FM band by pressing **TUNER**.

2 Press **DISPLAY** to display the current time.

3 Press **FREQ/RDS**.

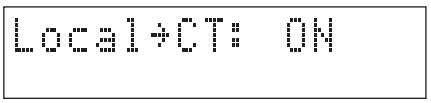
4 Each time you press **PTY SEEK MODE** the display will change as follows:

1. CT → CLOCK (ON/OFF)
   The tuner corrects the time of the built-in clock automatically by synchronizing it with the CT data on the RDS station being received.

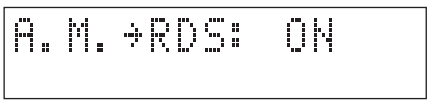


- If you receive an RDS station of some other country, the built-in clock is synchronized with the time setting of the country.
- If the built-in clock is not yet set for the current time or reset due to a power failure, etc., it will be set for the time of the CT data automatically, whether this setting is ON or OFF.

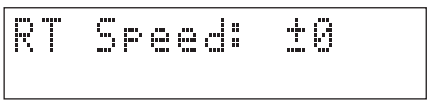
2. LOCAL → CT (ON/OFF)
   If the RDS station being received employs the local time (summer time, etc.) data service, its time is displayed in the CT mode.



3. A.M. → RDS (ON/OFF)
   RDS stations are searched instead of all FM stations by the automatic preset tuning operation when the setting is ON. (Refer to page 11.)



4. RT SPEED: ±0
   Changes the scrolling speed of the radio text decreasing the value and, in turn, reducing the speed.



   Control Range: ±0 to ±3 (Preset value: ±0)

5 Choose the function ON or OFF by pressing **PTY SEEK START**, confirming it in the display. Press **PTY SEEK START** repeatedly to change the value for RT SPEED.

- If there is no operation for about 20 seconds, this mode is cancelled and turns into the frequency display. If the station has PS data, it turns into the PS mode.

6 Press **FREQ/RDS** again to restore the frequency display mode.

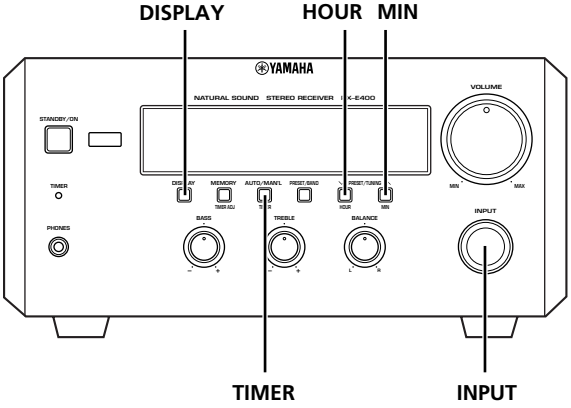
Downloaded From Disc-Player.com Yamaha Manuals

Before using the timer

If you want to use the cassette deck, KX-E300 or the MD Recorder, MDX-E300 for timer play or recording, you must first make the connections as shown in "Connecting the system" on page 5. For details, refer to the instructions supplied with the MDX-E300 or KX-E300.

Timer play and recording

By using the built-in timer, you can have the unit turn on at a specified time and begin playing or recording automatically. You can also specify the turn off time.



1 Press **DISPLAY**.
Whenever **DISPLAY** is pressed, the display mode changes as follows:

1. Clock Time (TIMER on/off mode)
   If you have not set the clock yet "Set Clock" appears. You need to set the current time as described on page 6.

   ↓

2. Timer Input
   Select the source to be played by turning **INPUT**.
   - Timer recording is possible only when you select TUNER or AUX.

   ↓

3. Timer REC
   Select the recording component by turning **INPUT**. If you like to enjoy timer play with TUNER or AUX, select "REC Mode OFF".

   (Example)

   TUNER→TAPE

   ↓

4. ON Time
   "ON Time" appears on the display for a second, and changed to the time setting mode.
   Press **HOUR** to set the hour.
   Press **MIN** to set the minute.

   ↓

5. OFF Time
   Set the time the same way as above.
   If you set the ON time but not OFF time, the timer play or recording will finish automatically after an hour.

Notes

- The display mode will change in about 8 seconds. If the mode is changed before the setting is completed, call the mode again by pressing **DISPLAY** once or more.
- If you select the input other than TUNER and AUX on "2. Timer Input", "3. Timer REC" is skipped.

2 Press **TIMER** to complete the timer setting.
The system is put in the standby mode.
- **TIMER** indicator lights up.

If you continue using the system, press **STANDBY/ON** to turn on this unit.

To cancel the timer play setting

Press **DISPLAY** to show the current time, then press **TIMER** so that "TIMER" goes off from the display. You can also cancel by pressing **TIMER** in standby mode.

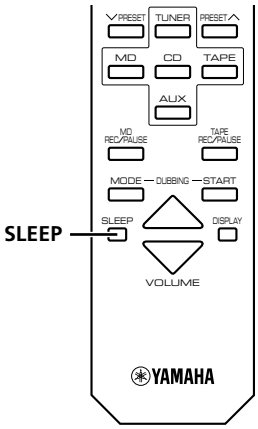
Note

- In the event of a power failure or when the AC power cord is disconnected for more than five minutes, you must reset the clock.

Downloaded From Disc-Player.com Yamaha Manuals

Sleep timer

The unit can be turned off automatically at a selected SLEEP time.



1 Play the desired sound source.

2 Press **SLEEP** repeatedly until the desired sleep time appears in the display. Each time you press **SLEEP**, the sleep time changes as follows:

SLEEP 2h00m

↓

SLEEP 1h30m

↓

SLEEP 1h00m

↓

SLEEP 0h30m

↓

SLEEP OFF

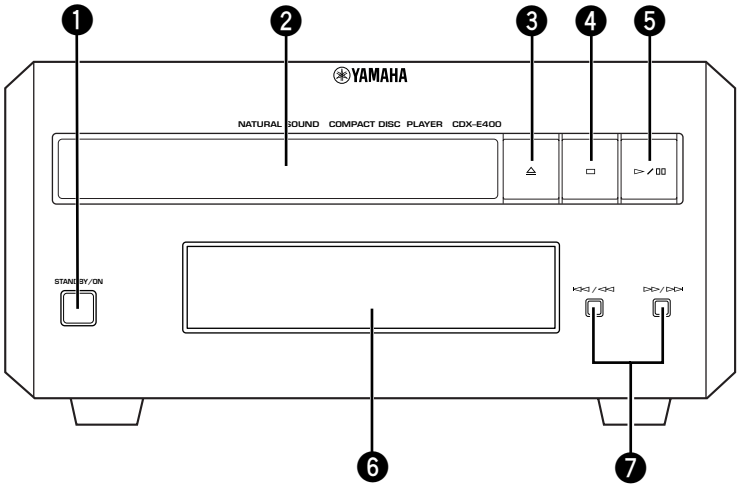
About 4 seconds after setting, the normal display will resume.

- "SLEEP" will appear in the display.

3 The unit will turn off automatically when the selected sleep time is reached.

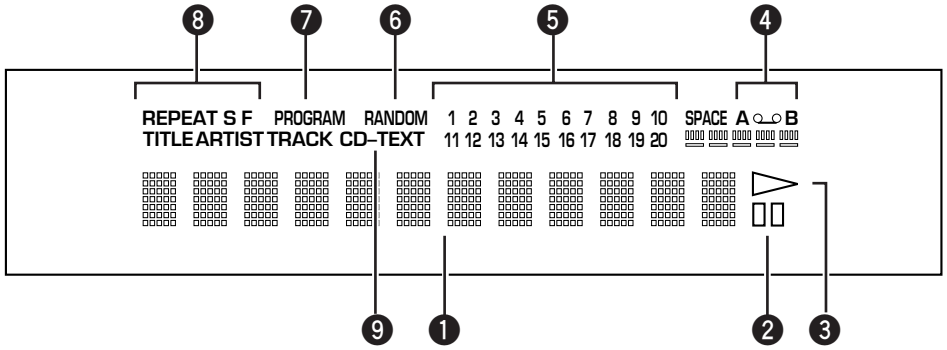
Downloaded From Disc-Player.com Yamaha Manuals

Front panel



❶ **STANDBY/ON** (P.19)
❷ Disc tray (P.19)
❸ ⏏ (Open/Close) (P.19)
❹ □ (Stop) (P.19)
❺ ▷/▯▯ (Play/Pause) (P.19)
❻ Display (this page)
❼ ⏮/◁◁ (Skip/Search Backward)
▷▷/⏭ (Skip/Search Forward) (P.19)

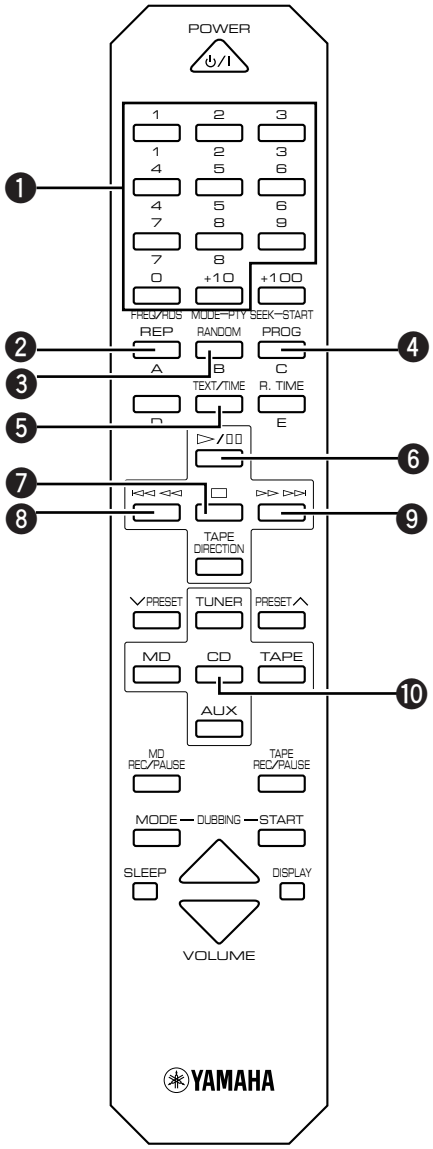
Display



❶ Multi-information Display
❷ ▯▯ Pause indicator
❸ ▷ Play indicator
❹ A ○○ B Tape side indicator (P.25)
❺ Music calendar
❻ **RANDOM** indicator (P.20)
❼ **PROGRAM** indicator (P.21)
❽ **REPEAT S/F** (Single or Full) indicator (P.21)
❾ **CD-TEXT** indicator (P.20)

Downloaded From Disc-Player.com Yamaha Manuals

Remote control



❶ Numeric buttons (P.19)
- +100 button is used when operating MDX-E300.

❷ **REP** (Repeat) (P.21)

❸ **RANDOM** (Random) (P.20)

❹ **PROG** (Program) (P.21)

❺ **TEXT/TIME** (P.20)

❻ ▷/▯▯ (Play/Pause) (P.19)

❼ □ (Stop) (P.19)

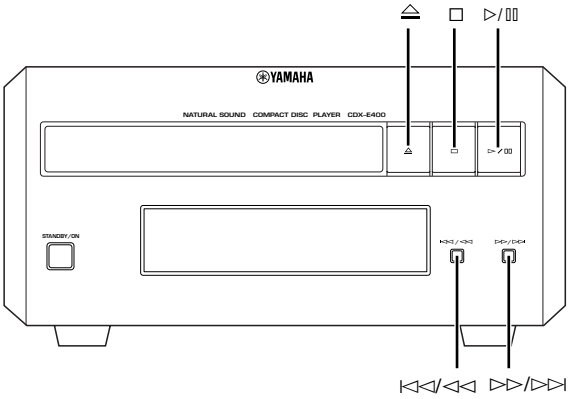
❽ ⊢◁◁ ◁◁ (Skip/Seach Backward) (P.19)

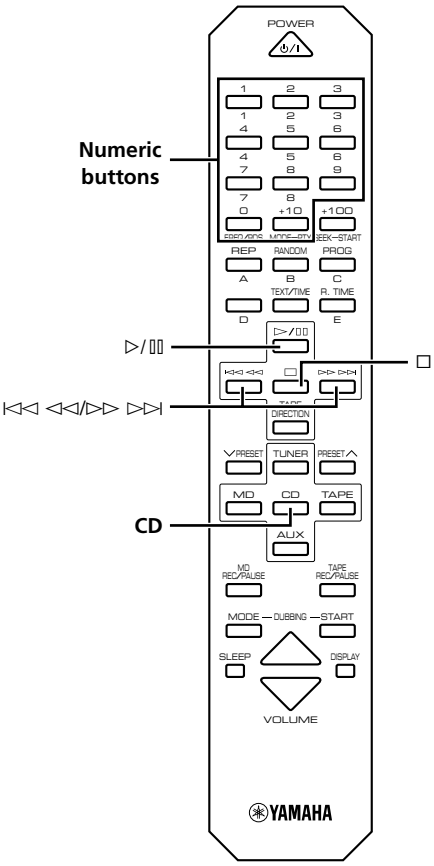
❾ ▷▷ ▷▷⊣ (Skip/Seach Forward) (P.19)

❿ **CD** input (P.19)

Downloaded From Disc-Player.com Yamaha Manuals

Playing a disc

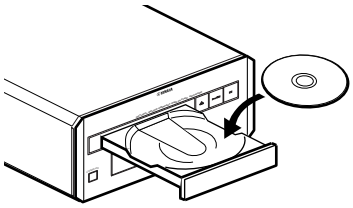




1 Turn on the power of RX-E400 and CDX-E400. (Refer to page 9.)

2 Press **CD** on the remote control in order to operate the CD player by the remote control.

3 Press ⏏ to open the disc tray, and place a CD on the tray.



4 Press ▷/▯▯ to start play.
This unit starts play.

To pause play

Press ▷/▯▯.
To resume play, press ▷/▯▯ again.

To stop play

Press □.

To eject the CD

Press ⏏ to open the disc tray, and remove the CD from the tray.

To play a specific track on the disc (Skip)

Direct play

Select a desired track using the numeric button.
(Example: To select 35, press +10 three times so that "3 –" appears in the display, then press 5.)

Skip play

Press ▷▷/▷▷| to skip forward or |◁◁/◁◁ to skip backward. Press once for each track to be skipped.

Notes

- You cannot enter a number that is higher than the last track number on the disc.
- These operations can also be performed when the unit is in the pause or stop mode.
- During stop mode, if ▷▷/▷▷| or |◁◁/◁◁ is pressed, the track number successively changes to higher numbers (or lower numbers).

To advance or reverse playback rapidly (Search)

Press and hold ▷▷/▷▷| to advance playback rapidly, and |◁◁/◁◁ to reverse playback rapidly.

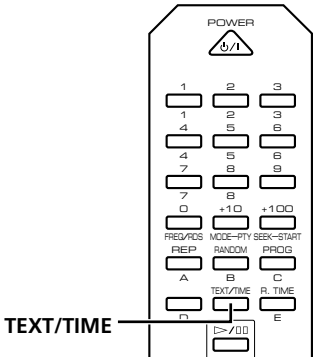
Note

- This unit cannot play a CD-R or CD-RW disc unless the disc is finalized. Please make sure to finalize the disc on the CD recorder before playing on this unit.

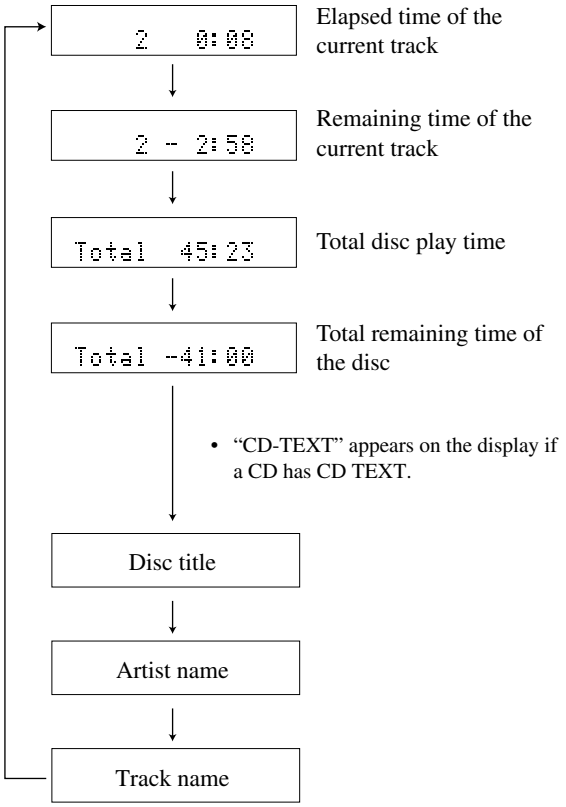
Downloaded From Disc-Player.com Yamaha Manuals

Selecting the time display and CD TEXT

You can select any of four time displays by pressing **TEXT/TIME**. When you play a CD with CD TEXT, the disc title, artist name, and track name are also displayed.



Each time you press **TEXT/TIME**, the display changes as follows:

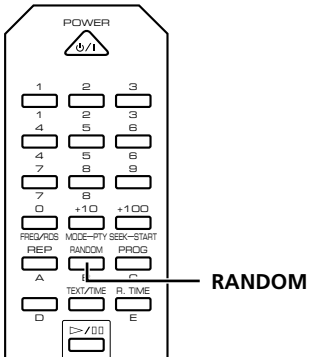

2 0:00
Elapsed time of the current track
2 - 2:58
Remaining time of the current track
Total 45:23
Total disc play time
Total -41:00
Total remaining time of the disc
• "CD-TEXT" appears on the display if a CD has CD TEXT.
Disc title
Artist name
Track name

Note

- The disc title, artist names, or track names may not be displayed with some CD TEXT discs. In this case, "(NO ENTRY)" appears on the display for about two seconds and then go back to the time display.

Random-sequence play

The unit can play all the tracks in a random sequence.



Press **RANDOM**.

- "RANDOM" appears on the display.

The unit starts random sequence play.

To cancel random-sequence play mode

Press □ or **RANDOM**.

- "RANDOM" disappears from the display.

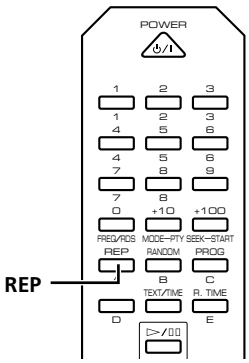
Notes

- This feature will not function during programming, or during programmed play.
- If ▷▷/▷▷| is pressed during random-sequence play, the next randomly programmed track will be played.
  If |◁◁/◁◁ is pressed, play will return to the beginning of the current track.
- Total remaining time on the disc will not be displayed during random-sequence play.

Downloaded From Disc-Player.com Yamaha Manuals

Repeat play

You can play any desired track or disc repeatedly.
Press **REP** to select the repeat mode.



SINGLE REPEAT

The current track is played repeatedly.

REPEAT S

FULL REPEAT

The current disc is played repeatedly.

- In random-sequence play mode, all randomly sequenced tracks are played repeatedly in the same order.

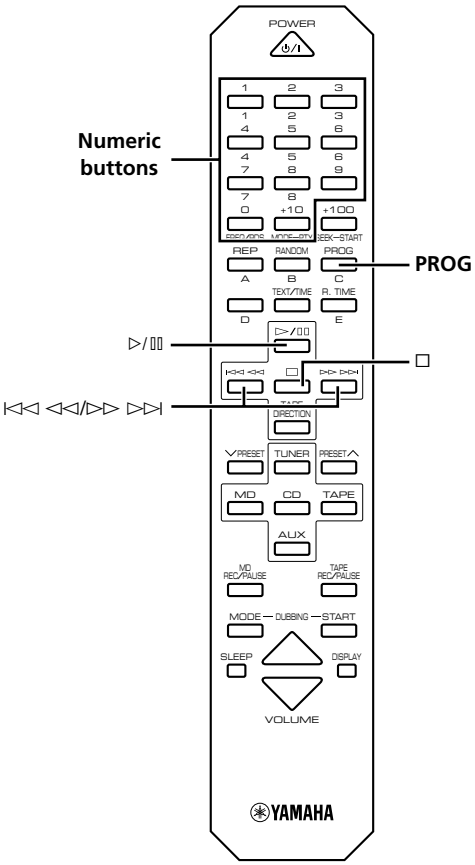
REPEAT F

To cancel repeat play mode

Press **REP** successively until “REPEAT S” and “REPEAT F” disappear from the display.

Program play

By creating a program, you can enjoy listening to your favourite tracks in any desired order. As many as 30 tracks can be programmed in sequence.



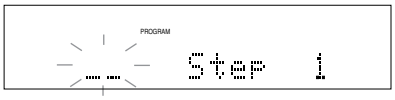
1 Press □ to stop the unit.

2 Press **PROG**.

- “PROGRAM” appears in the display.

PROGRAM

3 Use the numeric buttons to select a track number until the desired track number appears on the display.



4 Repeat step 3 to program more tracks. You can select the same track again.

5 Press ▷/▯▯ to start program play.

Downloaded From Disc-Player.com Yamaha Manuals

To stop program play mode

Press ☐.

Note

- ▷▷/▷▷I or I◁◁/◁◁ can be used during program play to skip to tracks within the program.

To check program data

1. Press ☐ to stop program play.
2. Press **PROG**. Then each time you press ▷▷/▷▷I / I◁◁/◁◁, the track number and the program number are displayed in the order of the program.

To change program data

1. Follow the preceding procedure described in “To check program data.”
2. Display the track number to be changed by pressing ▷▷/▷▷I / I◁◁/◁◁.
3. Press the numeric button of the desired track. The previously programmed track will be cleared from memory and the new one will be programmed.

To delete all program data

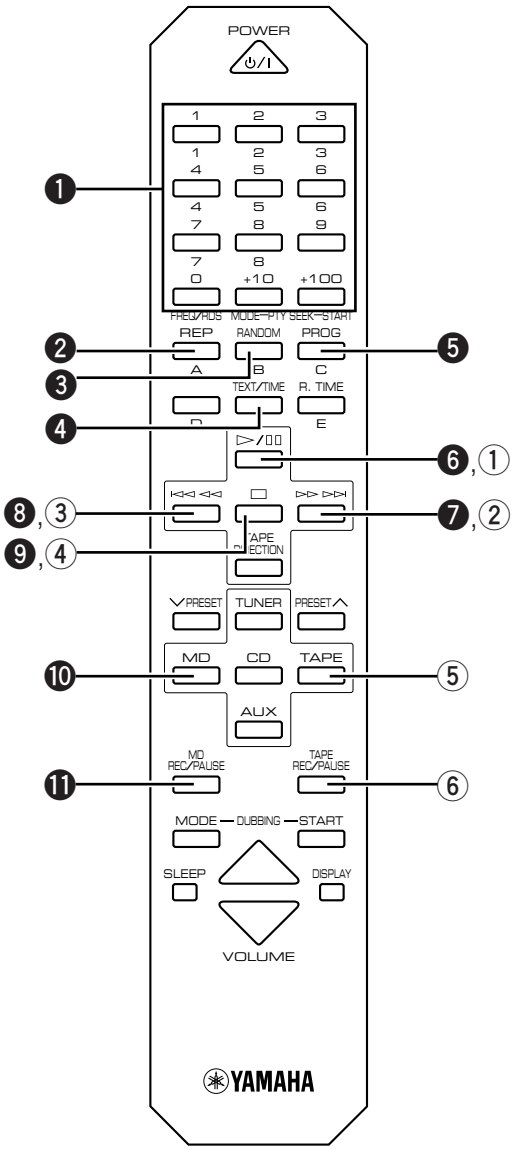
When program play is stopped, press ☐.

Note

- Turning the unit to the standby mode or opening the disc tray also deletes the program data.

Downloaded From Disc-Player.com Yamaha Manuals

Controlling other components



MDX-E300

❶ Numeric buttons
❷ **REP** (Repeat)
❸ **RANDOM**
❹ **TEXT/TIME**
❺ **PROG** (Program)
❻ ▷/▯▯ (Play/Pause)
❼ ▷▷ ▷▷| (Skip/Search Forward)
❽ |◁◁ ◁◁ (Skip/Search Backward)
❾ □ (Stop)
❿ **MD** input
⓫ **MD REC/PAUSE**

KX-E300

① ▷/▯▯ (Play)
② ▷▷ ▷▷| (Fast-foward)
③ |◁◁ ◁◁ (Rewind)
④ □ (Stop)
⑤ **TAPE** input
⑥ **TAPE REC/PAUSE**

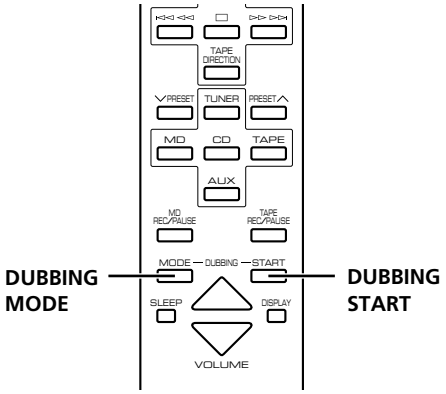
Downloaded From Disc-Player.com Yamaha Manuals

Before recording

When you record by using MDX-E300 or KX-E300, you must first make the connections as shown in "Connecting the system" on page 5. For details, refer to the instructions supplied with the MDX-E300 or KX-E300. A source from the component which is connected to the **AUX** terminal component can be recorded on a tape or MD.

Dubbing setting

There are six different combinations of components. Once you choose a certain mode, recording starts and ends automatically in a certain way for each mode.



1 Decide the combination of the components. Each time you press **DUBBING MODE**, the mode will change in the below order.

① DUB CD→TAPE

- Recording automatically starts from the beginning of the tape. (By pressing **DUBBING START**, the tape automatically rewinds to the beginning if it is in the middle.)
- When the recording on side A finishes while a track is being played back, the recording on side B starts from the beginning of the same track.
- The sound is automatically faded out when it gets close to the end of side B.

↓

② DUB CD→MD

↓

③ Play unit Record unit

DUB MD→TAPE

- Same as CD → TAPE

↓

④ Play unit Record unit

DUB TAPE→MD

- Recording automatically starts at the beginning of the tape. (By pressing **DUBBING START**, the tape automatically rewinds to the beginning if it is in the middle.)

2 Press **DUBBING START** to start recording.

Note

- The displays ①~④ which include the component you have not connected to your receiver (RX-E400) will be skipped.

To stop dubbing

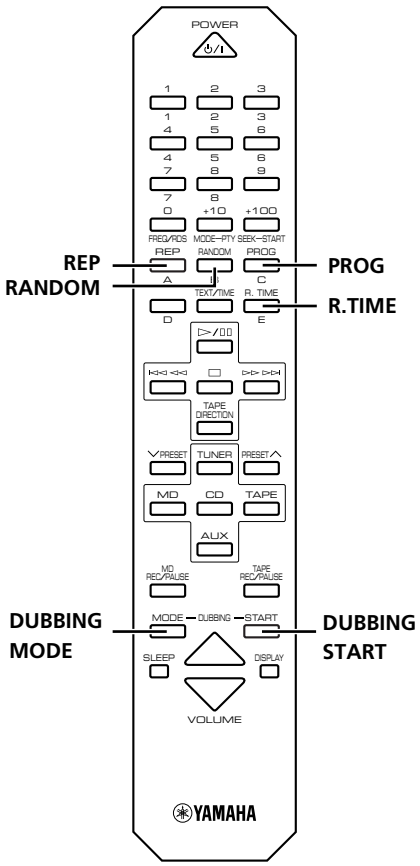
Press □.

Downloaded From Disc-Player.com Yamaha Manuals

Copy time control

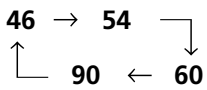
By specifying the length of the tape, CDX-E400 programs tracks or helps you to program tracks so they will fit onto the tape with the least amount of unrecorded space remaining at each end of the tape. There are three ways of programming.

1 Manual tape programming



1 Insert the desired disc into the CD player, and load a blank tape into the KX-E300.

2 Press **R.TIME** repeatedly to select the length of tape to be used. Each time you press **R.TIME**, the length of the tape changes as follows:



- You can use numeric buttons to input the length of the tape.

3 Press **PROG** to start programming.
- "A ○○ B" appears in the display to indicate the direction of the tape.

4 Select the desired track number using numeric buttons.
- Repeat step 4 to continue programming tracks.
- The remaining time is shown on the display. If the track is longer than the remaining time, "Error" appears on the display.

5 Press **R.TIME** to continue programming tracks on side B.
- Repeat step 4.

6 Press **PROG** to confirm the program.

7 Choose CD → TAPE by pressing **DUBBING MODE**, and press **DUBBING START** to start recording.

2 Automatic tape programming

1 Repeat steps 1 and 2 of "Manual tape programming".

2 Press **REP** to start programming.
- Programming is done in the order on the CD from side A to side B. When complete, the programmed track number and total time are indicated in the display for 3 seconds.

3 Press **PROG** to confirm the program.

4 Choose CD → TAPE by pressing **DUBBING MODE**, and press **DUBBING START** to start recording.

3 Random tape programming

1 Repeat steps 1 and 2 of "Manual tape programming".

2 Press **RANDOM** to start programming.
- Programming of CD tracks is done randomly from side A to side B. When complete, the programmed track number and total time are indicated in the display for 3 seconds.

3 Press **PROG** to confirm the program.

4 Choose CD → TAPE by pressing **DUBBING MODE**, and press **DUBBING START** to start recording.

To stop dubbing

Press ☐ on CDX-E400 or ☐ on KX-E300.

To cancel tape programming

Press ☐ on CDX-E400 when dubbing is stopped.

Downloaded From Disc-Player.com Yamaha Manuals

Troubleshooting

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help. When taking the service, the MDX-E300 or KX-E300 may be needed. For details, contact your authorized YAMAHA dealer or service center.

	SYMPTOM	CAUSE	REMEDY
RX-E400 RECEIVER	**The unit does not switch ON when the STANDBY/ON switch is pressed.**	The AC power cord is not connected or not completely connected.	Securely connect the power cord.
	No sound from one speaker.	Loose speaker connections.	Connect properly.
	The sound suddenly goes off.	The protection circuit has been activated because of a short circuit, etc.	Check the speaker wires are not touching each other and then turn the unit back on.
	No sound from an external unit connected with this unit or play does not begin.	Incorrect cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.
		Input source selection is not proper.	Make a proper input source selection.
	Sound distorted.	The component connected to this unit is disconnected from AC outlet.	Connect the AC power cord of the component to an AC outlet.
	Excessive static in FM broadcasts.	Interference from starting motor of a nearby car.	Position the FM antenna as high and as far away from nearby roads as possible. Connect using a coaxial cable.
		Interference from the thermostat of a nearby electrical appliance.	
	Noise increases during stereo broadcasts.	Antenna input is too weak due to obstructions or excessive distance from the broadcasting station.	Check the antenna connection.
			Install a multi-element type FM antenna if possible.
	Stereo broadcasts are noisy and STEREO indicator blinks on and off.	Insufficient antenna input.	Install an antenna appropriate for the electric field strength of your area.
	Cannot select preset stations.	Preset memory has been erased.	Reprogram memory presets.
	Buzzing or static during AM broadcasts.	Interference from sources such as lightning, fluorescent lights, electric motors or thermostat of nearby electrical appliance.	The problem is difficult to eliminate, but can be lessened by grounding AM loop antenna.
		TV or microprocessor is being used nearby.	Move away from TV or microprocessor.
	AM broadcast sensitivity is poor.	Radio signal is weak or the antenna is not properly connected.	Properly connect the AM loop antenna.
			Change orientation of the AM loop antenna.
			Install an external AM loop antenna.
	Cannot set timer.	Current time is not set.	Set current time.
	The unit does not work normally.	The internal microcomputer has been frozen by an external electric shock (lightning, excessive static electricity, etc.) or the power supply with low voltage.	Unplug the AC power cord from the wall outlet, and then plug in again after about one minute.

Downloaded From Disc-Player.com Yamaha Manuals

	SYMPTOM	CAUSE	REMEDY
CDX-E400 CD PLAYER	**Play does not begin.**	The disc is damaged.	Check the disc carefully; replace it if necessary.
		There is moisture on the laser pick-up.	Wait 20 to 30 minutes after switching the unit ON before trying to play a disc.
		The disc has been loaded upside down.	Reload the disc with the label side facing up.
		The disc is dirty.	Clean the disc.
	Play is delayed, or begins at the wrong place.	The disc may be scratched or damaged.	Check the disc carefully; replace it if necessary.
	CD synchronized recording or Automatic recording function does not work.	The system cable is not connected securely.	Connect the system cable properly.
	Sound "skips."	The unit is being subjected to vibrations or impacts.	Relocate the unit.
		The disc is dirty.	Clean the disc.
	Sound "hums."	Improper cable connections.	Securely connect the audio cables. If the problem persists, the cables may be defective.
	Noise from inside of the unit.	The disc may be warped.	Replace the disc.
REMOTE CONTROL	**The remote control does not work.**	The batteries of the remote control are too weak.	Replace the batteries with new ones.
		Remote control is too far away or is being used at an incorrect angle.	Use within 6 meters and 60 degree radius.
		Direct sunlight or lighting (of an inverter type of fluorescent lamp, etc.) is striking the remote control sensor of the unit.	Change the position of the unit.
	TV functions strangely when the remote control is being used.	Remote control is being used near TV set with a remote control sensor.	Relocate this unit away from the TV or cover the TV's remote control sensor.

Downloaded From Disc-Player.com Yamaha Manuals

Specifications

<RX-E400>

Amplifier section

Minimum RMS output power per channel
..... 55 W + 55 W (6Ω 1kHz 0.1% THD)
..... 40 W + 40 W (6Ω 20 Hz to 20 kHz 0.1% THD)
DIN Standard output power per channel (Europe model)
..... 60 W + 60 W (4Ω 1kHz 0.7% THD)
Input sensitivity/Impedance
CD/TAPE/MD/AUX ..... 150 mV/47 kΩ
Frequency response
CD etc. ..... 20 Hz to 20 kHz, ±0.5 dB
Total Harmonic Distortion (20 Hz to 20 kHz)
CD etc. 20 W, 6 Ω 0.04%
Signal-to-Noise ratio (IHF-A Network)
CD etc. (250 mV, Input shorted) ..... 98 dB
Output level/Impedance
PHONES ..... 0.43 V/330 Ω

Tuner section

Tuning range
FM
[U.S.A. and Canada models] ..... 87.5 – 107.9 MHz
[U.K., Europe, Australia and General models]
..... 87.50 – 108.00 MHz
AM
[U.S.A. and Canada models] ..... 530 – 1710 kHz
[U.K., Europe and Australia models] ..... 531 – 1611 kHz
[General model] ..... 530/531 – 1710/1611 kHz
Sensitivity
FM (S/N 30dB) ..... 1.0 µV
AM ..... 300 µV/m

General

Power supply
[U.S.A. and Canada models] ..... AC 120 V, 60 Hz
[Australia model] ..... AC 240 V, 50 Hz
[U.K. and Europe models] ..... AC 230 V, 50 Hz
[General model] ..... AC 110/120/220/240 V, 50/60 Hz
Power consumption
[U.S.A. and Canada models] ..... 110 W
[U.K., Europe, Australia and General models] ..... 125 W
Power consumption (standby mode)
[U.S.A. and Canada models] ..... 0.7 W
[U.K., Europe and Australia models] ..... 0.8 W
Dimensions (W x H x D) ..... 217 x 108 x 372 mm
Weight ..... 5.4 kg

<CDX-E400>

CD player section

D/A converter ..... S-bit DAC
Frequency response ..... 2 Hz to 20 kHz, ±0.5 dB
S/N ratio ..... 102 dB

Laser diode properties

- Material: GaAIAs
- Wavelength: 780 nm
- Emission duration: continuous
- Laser output: max. 44.6 µW*

* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

General

Power supply
[U.K. and Europe models] ..... AC 230 V, 50 Hz
[General model] ..... AC 110/120/220/240 V, 50/60 Hz
Power consumption ..... 10 W
Power consumption (standby mode) ..... 4.0 W
Dimensions (W x H x D) ..... 217 x 108 x 346 mm
Weight ..... 3.0 kg

Specifications are subject to change without notice.

Downloaded From Disc-Player.com Yamaha Manuals

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION
L'emploi de commandes, de réglages ou un choix de procédures différents des spécifications de cette brochure peut entraîner une exposition à d'éventuelles radiations pouvant être dangereses.

ACHTUNG
Die Verwendung von Bedienungselementen oder Einstellungen oder die Durchführung von Bedienungsvorgängen, die nicht in dieser Anleitung aufgeführt sind, kann zu einem Kontakt mit gefährlichen Laserstrahlen führen.

OBSERVERA
Användning av kontroller och justeringar eller genomförande av procedurer andra än de som specificeras i denna bok kan resultera i att du utsätter dig för farlig strålning.

ATTENZIONE
Uso di controlli o regolazioni o procedure non specificamente descritte può causare l'esposizione a radiazioni di livello pericoloso.

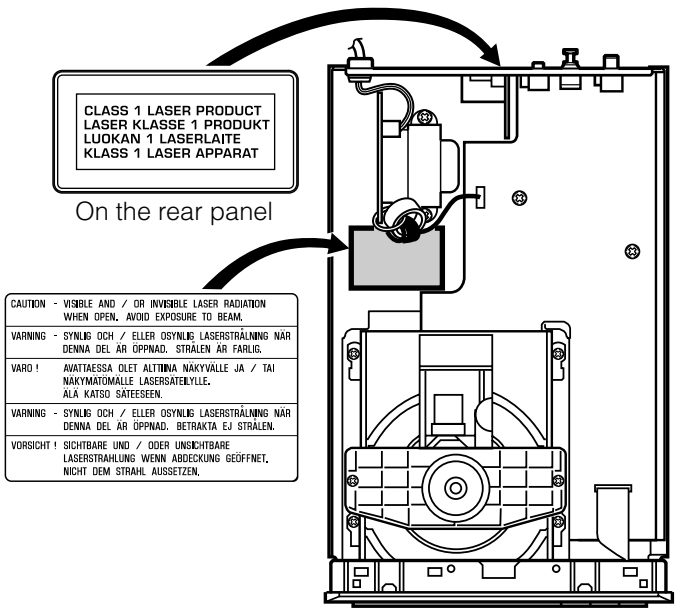
PRECAUCIÓN
El uso de los controles o los procedimientos de ajuste o utilización diferentes de los especificados en este manual pueden causar una exposición peligrosa a la radiación.

VOORZICHTIG
Gebruik van bedieningsorganen of instellingen, of uitvoeren van handelingen anders dan staan beschreven in deze handleiding kunnen leiden tot blootstelling aan gevaarlijke stralen.

VARO!
AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING!
OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

CDX-E400


CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
On the rear panel
CAUTION - VISIBLE AND / OR INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
VARNING - SYNLIG OCH / ELLER OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VARO ! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA / TAI NÄKYMÄTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING - SYNLIG OCH / ELLER OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
VORSICHT ! SICHTBARE UND / ODER UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

Downloaded From Disc-Player.com Yamaha Manuals

GB

YAMAHA

CRX-E400

RX-E400
CDX-E400

Receiver/CD Player

Récepteur/Lecteur CD

COMPACT disc DIGITAL AUDIO TEXT

micro component system
PIANOCRAFT

OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG
BRUKSANVISNING
MANUALE DI ISTRUZIONI
MANUAL DE INSTRUCCIONES
GEBRUIKSAANWIJZING

Downloaded From Disc-Player.com Yamaha Manuals